

sequence listing.ST25.txt
SEQUENCE LISTING

<110> Health Research Organization
Philpott, Sean
Burger, Harold
Weiser, Barbara

<120> Analysis of HIV-1 Coreceptor Use in the Clinical Care of HIV-1 Infected Patients

<130> 454311-2220.1

<140> 09/963,064
<141> 2001-09-25

<150> 60/235,671
<151> 2000-09-26

<150> 60/282,354
<151> 2001-04-06

<160> 34

<170> PatentIn version 3.2

<210> 1
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 1

Cys Ile Arg Pro Asn Asn Asn Thr Arg Thr Ser Ile Arg Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asn Ile Ile Gly Asp Ile Arg Gln
20 25 30

Ala Tyr Cys
35

<210> 2
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 2

Cys Ile Arg Pro Asn Asn Asn Thr Arg Thr Ser Ile Arg Ile Gly Pro
1 5 10 15

Arg Gln Ala Phe Tyr Ala Thr Gly Asn Ile Ile Gly Asp Ile Arg Gln
20 25 30

Ala Tyr Cys
35

sequence listing.ST25.txt

<210> 3
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 3

Cys Ile Arg Pro Asn Asn Asn Thr Arg Thr Ser Ile Arg Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asn Ile Val Gly Asp Ile Arg Gln
20 25 30

Ala Tyr Cys
35

<210> 4
<211> 27
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 4

Arg Lys Ser Val His Ile Gly Pro Gly Gln Ala Phe Tyr Ala Thr Gly
1 5 10 15

Asp Ile Ile Gly Asn Ile Arg Lys Ala His Cys
20 25

<210> 5
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 5

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asn Ile Arg Lys
20 25 30

Ala His Cys
35

<210> 6
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 6

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro
1 5 10 15

sequence listing.ST25.txt

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asn Ile Arg Gln
20 25 30

Ala His Cys
35

<210> 7
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 7

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asn Met Arg Lys
20 25 30

Ala His Cys
35

<210> 8
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 8

Cys Thr Arg Pro Ile Asn Asn Arg Arg Lys Ser Ile His Met Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Asp Ile Arg Lys
20 25 30

Ala Arg Cys
35

<210> 9
<211> 36
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 9

Cys Thr Arg Pro Ser Asn Asn Arg Arg Lys Ser Ile His Lys Gly Asp
1 5 10 15

Gln Asp Lys His Ser Met Glu His Asp Asp Val Ile Gly Asp Ile Arg
20 25 30

Lys Ala Arg Cys

sequence listing.ST25.txt

35

<210> 10
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 10

Cys Thr Arg Pro Ile Asn Asn Arg Arg Lys Ser Ile His Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Asp Ile Arg Gln
20 25 30

Ala His Cys
35

<210> 11
<211> 34
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 11

Cys Ile Arg Pro Asn Asn Asn Thr Arg Gln Ser Val His Ile Gly Pro
1 5 10 15

Gly Gln Ala Leu Tyr Thr Thr Glu Ile Ile Gly Asp Ile Arg Lys Ala
20 25 30

His Cys

<210> 12
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 12

Cys Thr Arg Pro Asn Asn Asn Thr Ile Thr Ser Ile Arg Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Ser Ile Ile Gly Asn Ile Arg Gln
20 25 30

Ala His Cys
35

<210> 13
<211> 35
<212> PRT

sequence listing.ST25.txt
<213> Human immunodeficiency virus type 1

<400> 13

Cys Thr Arg Pro Asn Asn Asn Thr Ile Thr Ser Ile Arg Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Ser Ile Ile Gly Asn Thr Arg Gln
20 25 30

Ala His Cys
35

<210> 14

<211> 35

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 14

Cys Thr Arg Pro Asn Asp Asn Ile Arg Lys Ser Val His Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asp Ile Arg Arg
20 25 30

Ala His Cys
35

<210> 15

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer sequence for HIVGao1F

<400> 15

ggcttaggca ttccttatgg caggaagaa

29

<210> 16

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer sequence for HIVGao1R

<400> 16

ggcttaggca ttccttatgg caggaagaa

29

<210> 17

<211> 27

<212> DNA

<213> Artificial Sequence

sequence listing.ST25.txt

<220>
<223> Primer sequence for HIVGao2F

<400> 17
agaaagagca gaagacagtg gcaatga 27

<210> 18
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer sequence for HIVGao2R

<400> 18
agcccttcca gtccccctt ttctttta 28

<210> 19
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> NL6942F primer used in sequencing of v3 loop of the envelope gene

<400> 19
gcacagtaca atgtacacat g 21

<210> 20
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> NL7103F primer used in sequencing of v3 loop of the envelope gene

<400> 20
acaagaccca acaacaatac a 21

<210> 21
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> NL7356R primer used in sequencing of v3 loop of the envelope gene

<400> 21
tgtattgttg ttgggtcttg t 21

<210> 22
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> CCR5 prediction based on alternative residues
Page 6

sequence listing.ST25.txt

```
<220>
<221> misc_feature
<222> (6)..(6)
<223> "x" can be either G or S

<220>
<221> misc_feature
<222> (8)..(8)
<223> "x" can be any amino acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> "x" can be any amino acid

<220>
<221> misc_feature
<222> (15)..(17)
<223> "x" can be any amino acid

<220>
<221> misc_feature
<222> (20)..(20)
<223> "x" can be either D or E
```

<400> 22

Asn Asn Thr Arg Lys Xaa Ile Xaa Ile Gly Pro Gly Xaa Thr Gly Xaa
1 5 10 15

Ile Ile Gly

```
<210> 23
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> CCR5 prediction based on alternative residues
```

```
<220>
<221> misc_feature
<222> (6)..(6)
<223> "x" can be any amino acid

<220>
<221> misc_feature
<222> (8)..(8)
<223> "x" can be any amino acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> "x" can be any amino acid

<220>
<221> misc_feature
```

sequence listing.ST25.txt

<222> (16)..(16)
<223> "X" can be any amino acid

<220>
<221> misc_feature
<222> (275)..(275)
<223> "X" can be K, H, or R

<220>
<221> misc_feature
<222> (287)..(287)
<223> "X" can be D or E

<400> 23

Asn Asn Thr Arg Lys Xaa Ile Xaa Ile Gly Pro Gly Xaa Thr Gly Xaa
1 5 10 15

Ile Ile Gly

<210> 24
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> CCR5 prediction based on alternative residues

<220>
<221> misc_feature
<222> (6)..(6)
<223> "X" can be any amino acid

<220>
<221> misc_feature
<222> (8)..(8)
<223> "X" can be any amino acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> "X" can be any amino acid

<220>
<221> misc_feature
<222> (16)..(16)
<223> "X" can be any amino acid

<220>
<221> misc_feature
<222> (275)..(275)
<223> "X" can be any amino acid except K, H, or R

<220>
<221> misc_feature
<222> (287)..(287)
<223> "X" can be D, E, K, H, or R

<400> 24

sequence listing.ST25.txt

Asn Asn Thr Arg Lys Xaa Ile Xaa Ile Gly Pro Gly Xaa Thr Gly Xaa
1 5 10 15

Ile Ile Gly

<210> 25
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> CXCR4 prediction based on alternative residues.

<220>
<221> misc_feature
<222> (6)..(6)
<223> "x" can be any amino acid

<220>
<221> misc_feature
<222> (8)..(8)
<223> "x" can be any amino acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> "x" can be any amino acid

<220>
<221> misc_feature
<222> (16)..(16)
<223> "x" can be any amino acid

<220>
<221> misc_feature
<222> (275)..(275)
<223> "x" can be K, H, or R

<220>
<221> misc_feature
<222> (287)..(287)
<223> "x" can be K, H, or R

<400> 25

Asn Asn Thr Arg Lys Xaa Ile Xaa Ile Gly Pro Gly Xaa Thr Gly Xaa
1 5 10 15

Ile Ile Gly

<210> 26
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

sequence listing.ST25.txt

<400> 26

Cys Ile Arg Pro Asn Asn Asn Thr Arg Thr Ser Ile Arg Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asn Ile Ile Gly Gly Ile Arg Gln
20 25 30

Ala Tyr Cys
35

<210> 27

<211> 35

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 27

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Leu
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asn Ile Arg Lys
20 25 30

Ala His Cys
35

<210> 28

<211> 35

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 28

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Leu Gly Asn Ile Arg Gln
20 25 30

Ala His Cys
35

<210> 29

<211> 35

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 29

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro
1 5 10 15

sequence listing.ST25.txt
Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asp Ile Arg Gln
20 25 30

Ala Tyr Cys
35

<210> 30
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 30

Cys Thr Arg Pro Asn Asn Asn Thr Lys Lys Ser Val His Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asp Ile Arg Gln
20 25 30

Ala Tyr Cys
35

<210> 31
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 31

Cys Thr Arg Pro Asn Asp Asn Ile Arg Lys Arg Val His Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Val Ile Gly Asp Ile Arg Arg
20 25 30

Ala His Cys
35

<210> 32
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1.

<400> 32

Cys Thr Arg Pro Ile Asn Asn Arg Arg Lys Ser Ile His Ile Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Asp Ile Arg Gln
20 25 30

Ala His Cys
35

sequence listing.ST25.txt

<210> 33
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 33

Cys Thr Arg Pro Ser Asn Asn Arg Arg Lys Ser Ile His Met Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Gly Ile Arg Lys
20 25 30

Ala Arg Cys
35

<210> 34
<211> 35
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 34

Cys Thr Arg Pro Ser Asn Asn Arg Arg Lys Ser Ile His Met Gly Pro
1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Asp Ile Arg Lys
20 25 30

Ala Arg Cys
35

1

1